

Dow SARAN WRAP™ 18 Plastic Film

Category : Polymer , Film , Thermoplastic , PVDC

Material Notes:

SARAN WRAP™ 18 Plastic Film is a clear biaxially oriented monolayer barrier film, designed for chub packaging machines and laminations.

It is available in 100 gauge, as single or double would rolls, in widths up to 60 inches. Information provided by Dow

Order this product through the following link:

http://www.lookpolymers.com/polymer_Dow-SARAN-WRAP-18-Plastic-Film.php

Physical Properties	Metric	English	Comments
Water Vapor Transmission	4.20 g/m ² /day	0.270 g/100 in ² /day	at 100°F, 90% RH; Permatran W
Oxygen Transmission	0.472 cc-mm/m ² -24hr-atm	1.20 cc-mil/100 in ² -24hr-atm	10% RH; ASTM D3985
Nitrogen Transmission	0.0709 cc-mm/m ² -24hr-atm	0.180 cc-mil/100 in ² -24hr-atm	10% RH; ASTM D1434
Carbon Dioxide Transmission	2.13 cc-mm/m ² -24hr-atm	5.40 cc-mil/100 in ² -24hr-atm	10% RH; ASTM D1434
Thickness	25.4 microns	1.00 mil	ASTM D374

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	80 %	80 %	ASTM D882
Film Elongation at Break, TD	60 %	60 %	ASTM D882
Secant Modulus, MD	0.5833 GPa	84.60 ksi	2% Secant; ASTM D882
Secant Modulus, TD	0.4964 GPa	72.00 ksi	2% Secant; ASTM D882
Coefficient of Friction, Dynamic	0.27	0.27	Film to Metal; ASTM D1894
Film Tensile Strength at Break, MD	96.5 MPa	14000 psi	ASTM D882
Film Tensile Strength at Break, TD	124 MPa	18000 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Shrinkage, MD	16 %	16 %	Unrestrained, 100°C Air
Shrinkage, TD	9.0 %	9.0 %	Unrestrained, 100°C Air

Optical Properties	Metric	English	Comments
Haze	7.0 %	7.0 %	ASTM D1003
Gloss	99 %	99 %	45°; ASTM D2457

Optical Properties	Metric	English	Comments
Transmission, Visible	96 %	96 %	Clarity: ASTM D1746

Descriptive Properties	Value	Comments
Air Transmission cc-mil/100 in ² -24hr-atm	0.36	10% RH
Yield in2/lb	16200	ASTM D2103

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